Approved for use through 07/31/2006. OMB 0651-0032
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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	2251.0010000					
First Inventor	James L. Pettigrew, LPE					
Title	System And Method For Monitoring Aircraft Engine Health And Determining Engine Power Available, And Applications Thereby					
Express Mail Label No.	31					

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450					
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. X Specification [Total Pages 26] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies					
- Claim(s) - Abstract of the Disclosure	ACCOMPANYING APPLICATION PARTS					
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets6] 5. Oath or Declaration [Total Sheets2] a. X Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. X Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and supproper specification following the title, or in an Application Data Sheet under 37 cerebral seeds and suppropriate box.	ACCOMPANYING APPLICATION PARTS 9. X Assignment Papers (cover sheet & document(s)) 10. X 37 CFR 3.73(b) Statement X Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. X Other: Authorization under 37CFR 1.136(a)(3) The name of the assignee is: Howell Instruments, Inc. 19 the requisite information below and in the first sentence of the TOFR 1.76: tion-in-part (CIP) of prior application No: Art Unit: 10 prior application, from which an oath or declaration is supplied under Box and the proposition of the sentence of the proposition of the prior application, from which an oath or declaration is supplied under Box and the proposition of the pro					
19. CORRESPOND	DENCE ADDRESS					
X Customer Number: 26111	OR Correspondence address below					
Name						
Address						
City	State Zip Code					
Country Te	lephone Fax					
Name (Print/Type) Virgil L. Beaston Signature	Registration No. (Attorney/Agent) 47,415					
Signature Vingle. Bank	Date 3/15/04					

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (10-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

X Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

)	650.	.00
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Complete if Known				
Application Number	To Be Assigned			
Filing Date	March 15, 2004			
First Named Inventor	James L. Pettigrew, LPE			
Examiner Name	To Be Assigned			
Art Unit	To Be Assigned			
Attorney Docket No.	2251.0010000			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check X Credit card Money Order None	one 3. ADDITIONAL FEES					
*Charge any deficiencies or credit any overpayments in Deposit Account: the fees to Deposit Acct. No. 19-0036.	Large En					
Deposit Deposit			Fee Code	Fee (\$)	Fee Description	
Account Number 19-0036	1	130	2051		Surcharge - late filing fee or oath	Fee Paid
Deposit Account Name Sterne Kessler, Goldstein & Fox P.L.L.C.	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification	
X Charge fee(s) indicated below X Credit any overpayments	1812 2,	,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)		920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION		110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Pee Paid Code (\$) Code (\$)	1254 1,	,480	2254	740	Extension for reply within fourth month	
1001 770 2001 385 Utility filling fee	1255 2,	,010	2255	1,005	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee 385	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1,	510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 385	1452	110	2452	55	Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,	330	2453	665	Petition to revive - unintentional	
Fee from	1501 1,		2501	665	Utility issue fee (or reissue)	
Total Claims 45 -20 **= 25 X 9 = 225	i	480	2502	240	Design issue fee	
Independent 20 22		640	2503	320	Plant issue fee	
Claims — 3 **=		130	1460	130	Petitions to the Commissioner	
Large Entity Small Entity	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Fee Fee Fee Fee Description	1806	180	1806	180	Submission of Information Disclosure Stmt	
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	examined (37 CFR 1.129(b))	
1205 18 2205 9 ** Reissue claims in excess of 20			1802	900	Request for Continued Examination (RCE) Request for expedited examination	
and over original patent	'''-		.002	000	of a design application	
241364 SUBTOTAL (2) (\$) 225	Other fee					
**or number previously paid, if greater; For Reissues, see above	*Reduce	ed by	Basic F	iling Fe	ee Paid SUBTOTAL (3)	40

SUBMITTED BY				to the second se	(Complete (if a	applicable))
Name (Print/Type)	Virgil L. Bealston	0	Registration No. (Attorney/Agent)	47.415	Telephone	(202) 371-2600
Signature	Tugild. B	end			Date	3/15/04

WARNING! Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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*Practice Limited to
Federal Agencies

March 15, 2004

WRITER'S DIRECT NUMBER: (202) 772-8771 INTERNET ADDRESS: VBEASTON@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: March 15, 2004

For: System and Method for Monitoring Aircraft Engine Health and Determining Engine Power Available, and Applications Thereof

Inventors:

Pettigrew et al.

Our Ref:

2251.0010000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 2. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 3. PTO Fee Transmittal (Form PTO/SB/17);
- 4. U.S. Utility Patent Application entitled:

System and Method for Monitoring Aircraft Engine Health and Determining Engine Power Available, and Applications Thereof

and naming as inventors:

James L. Pettigrew, LPE and Mitchell T. Boeshart

the application consisting of:

a. An Application Data Sheet (37 C.F.R. § 1.76);

Sterne, Kessler, Goldstein & Fox PLL.C. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 :www.skgf.com

Commissioner for Patents March 15, 2004 Page 2

- b. A specification containing:
 - i. 19 pages of description prior to the claims;
 - ii. 6 pages of claims (45 claims);
 - iii. a one (1) page abstract;
- c. 6 sheets of drawings: (Figures 1, 2, 3, 4, 5, and 6); and
- d. An original executed Declaration;
- 5. Recordation Form Cover Sheet (Form PTO-1595);
- 6. Executed Assignment to <u>Howell Instruments</u>, <u>Inc.</u>, official recordation and return of which are respectfully requested;
- 7. Signed Statement Under 37 C.F.R. 3.73(b);
- 8. Original signed Power of Attorney from Assignee;
- 9. Form PTO-2038 Credit Card Payment Form in the amount of \$650.00 to cover: \$385.00 Application Filing Fee for a Small Entity; \$225.00 Extra Claims fee for twenty-five (25) extra claims; and \$40.00 Recordation Fee; and
- 10. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents March 15, 2004 Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Virgil L. Beaston

Attorney for Applicants Registration No. 47,415

VLB/mhd

241360

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

MAR 15 2004 B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Pettigrew et al.

Appl. No.: To Be Assigned

Filed: March 15, 2004

For: System and Method for Monitoring

Aircraft Engine Health and Determining Engine Power Available, and Applications

Thereof

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 2251.0010000

Authorization to Treat a Reply as Incorporating an Extension of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Virgil L. Beaston

Attorney for Applicants

Registration No. 47,415

Date:

1100 New York Avenue, N.W.

Washington, D.C. 20005-3934

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